

The Other Opioid Crisis: Heroin and Fentanyl

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1

#### **Disclosures**

■ Nothing to Disclose

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2

#### **Learning Objectives**

- •Describe the opioid overdose crisis in the United States today
- •Discuss common beliefs and inconsistencies about the role of prescription opioids in the opioid crisis
- •Identify the intersection of illicit drug use and clinical pain practice in today's "opioid epidemic"
- ■Provide clinically relevant recommendations for navigating the current landscape without depriving pain care to patients in need

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Is There More than one Opioid Crisis?

4

The Facts



5



#### The Facts

- ■People are dying...
- ■People are angry and reacting
- ■People are scared
- Overdoses from drugs (ALL drugs, legally prescribed or not) including opioids, hallucinogens, cocaine, etc.
  - -~ **72,000 deaths** nationwide in 2017
  - ↑12% from 2016
     More than 42,000 (~66%) involved some type of opioid
  - \*\*\*\*\*Some question accuracy regarding CDC overdose data and prescribed opioid analgesics\*\*\*\*



PainWeek There is More Than One Opioid Crisis. To better tackle the Published Jan. 17, 2018. https://fiverbirtyeight.com/feature

7

#### The Facts

- Drug(s) Responsible May be Unknown
   Overdose is usually about RESPIRATORY
   DEPRESSION
- Sometimes causes are not reported
  - May depend on the state
     Trends can be difficult to identify

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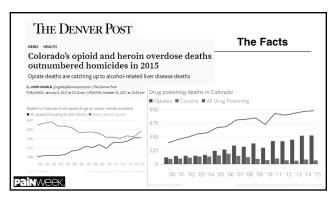
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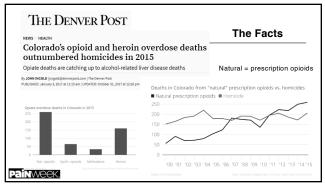
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### The Facts: Kentucky as an Example The most common drugs found in Kentucky's overdose victims Based on an analysis of 1,471 drug overdose deaths in 2016 DRUGS

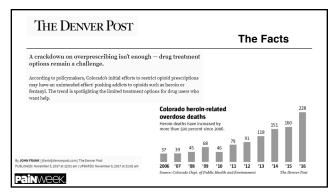
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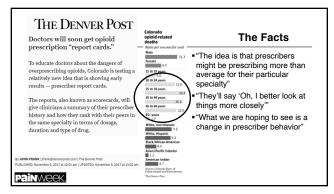
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There is More Than One Opicid Crisis. To better tacks the eppoint in 17, 7018. https://doi.org/10.1016/10.1016/10.1016/10.1016/10.1016/10.1016/10.1016/10.1016/10.1016/10.1016/10.1016/10.1016/10.1016/10.1016/10.1016/10.1016/10.1016/10.1016/10.1016/10.1016/10.1016/10.1016/10.1016/10.1016/10.1016/10.1016/10.1016/10.1016/10.1016/10.1016/10.1016/10.1016/10.1016/10.1016/10.1016/10.1016/10.1016/10.1016/10.1016/10.1016/10.1016/10.1016/10.1016/10.1016/10.1016/10.1016/10.1016/10.1016/10.1016/10.1016/10.1016/10.1016/10.1016/10.1016/10.1016/10.1016/10.1016/10.1016/10.1016/10.1016/10.1016/10.1016/10.1016/10.1016/10.1016/10.1016/10.1016/10.1016/10.1016/10.1016/10.1016/10.1016/10.1016/10.1016/10.1016/10.1016/10.1016/10.1016/10.1016/10.1016/10.1016/10.1016/10.1016/10.1016/10.1016/10.1016/10.1016/10.1016/10.1016/10.1016/10.1016/10.1016/10.1016/10.1016/10.1016/10.1016/10.1016/10.1016/10.1016/10.1016/10.1016/10.1016/10.1016/10.1016/10.1016/10.1016/10.1016/10.1016/10.1016/10.1016/10.1016/10.1016/10.1016/10.1016/10.1016/10.1016/10.1016/10.1016/10.1016/10.1016/10.1016/10.1016/10.1016/10.1016/10.1016/10.1016/10.1016/10.1016/10.1016/10.1016/10.1016/10.1016/10.1016/10.1016/10.1016/10.1016/10.1016/10.1016/10.1016/10.1016/10.1016/10.1016/10.1016/10.1016/10.1016/10.1016/10.1016/10.1016/10.1016/10.1016/10.1016/10.1016/10.1016/10.1016/10.1016/10.1016/10.1016/10.1016/10.1016/10.1016/10.1016/10.1016/10.1016/10.1016/10.1016/10.1016/10.1016/10.1016/10.1016/10.1016/10.1016/10.1016/10.1016/10.1016/10.1016/10.1016/10.1016/10.1016/10.1016/10.1016/10.1016/10.1016/10.1016/10.1016/10.1016/10.1016/10.1016/10.1016/10.1016/10.1016/10.1016/10.1016/10.1016/10.1016/10.1016/10.1016/10.1016/10.1016/10.1016/10.1016/10.1016/10.1016/10.1016/10.1016/10.1016/10.1016/10.1016/10.1016/10.1016/10.1016/10.1016/10.1016/10.1016/10.1016/10.1016/10.1016/10.1016/10.1016/10.1016/10.1016/10.1016/10.1016/10.1016/10.1016/10.1016/10.1016/10.1016/10.1016/10.1016/10.1016/10.1016/10.1016/10.1016/10.1016/10.1016/10.1016/10.1016/10.1016/10.1016/10.1016/10.1016/10.101

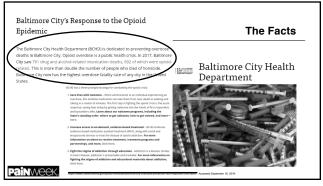




| THE DENVER POST                                                                                                                                                                                                                                         | The Facts                                                                                                                                                                       |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| "The state tracks opioid prescriptions, but doctors aren't required to check the database"  "The vast majority of states require clinicians to check the Prescription Drug Monitoring Program (PDMP) database before writing most opioid prescriptions" | Colorado drug-related hospitalization  Rates per source proposes  Prescription-opiolo related  15,24  Benzodiazepine related  14,58  Herom colated  2,98  Cocaine related  2,12 |
| By JOHN FRANK    frank@denverpost.com   The Denver Post. PUBLISHED: November 3, 2017 at 1201 am   UPDATED: November 6, 2017 at 11:02 am                                                                                                                 | Source: Colorado Dept. of Public Health<br>and Environment<br>The Denver Post                                                                                                   |
| <b>Pain</b> week,                                                                                                                                                                                                                                       |                                                                                                                                                                                 |









#### **Important Societal Questions**

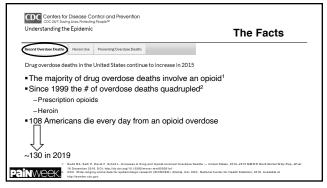
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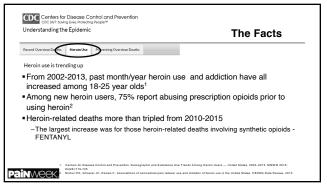


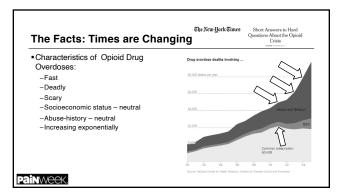
The right to be referred to a pain specialist or other healthcare provider if your pain persists.

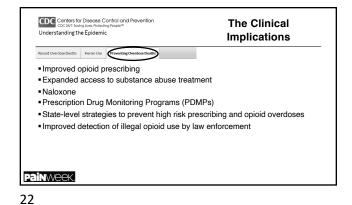
17

# THE DENVER POST The Clinical Implications Chronic pain patients say they are hurt by Colorado's opioid prescription guidelines Some Colorado doctors are refusing to prescribe opioids to chronic pain sufferes Now, across Colorado and the rest of the nation, these policies intended to address opioid abuse have unexpectedly harmed patients who depend on the drugs to treat chronic conditions, pain specialists and patients who depend on the drugs to treat chronic conditions, pain specialists and patient advocates say. The policies are supposed to offer guidance—halpful advocates are continues in prescribing more than a certain amount of opioids to any one patient. Officials at the Colorado Consortium for Prescription Drug Abuse Prevention, a group of medical and drug experts, is also working on ideas to protect pain patients while cracking down on opioid shows.









Understanding the Epidemic

The Facts

The Facts

Opioids (prescription and illicit) are main drivers

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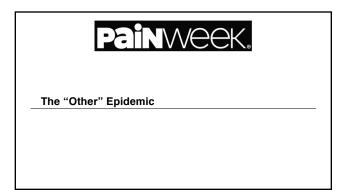
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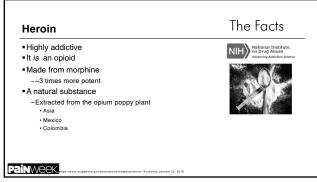
- Ohio

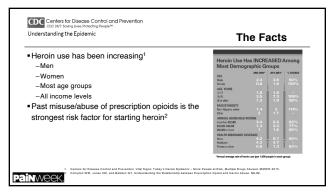
- New Hampshire

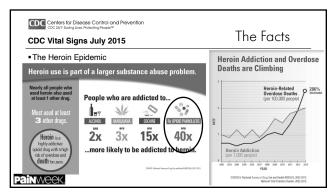
- Pennsylvania

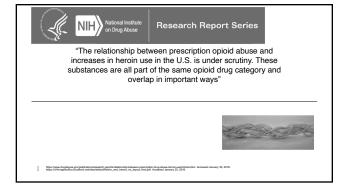
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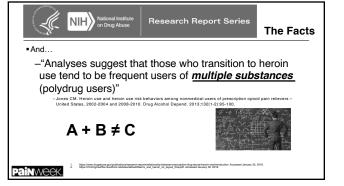


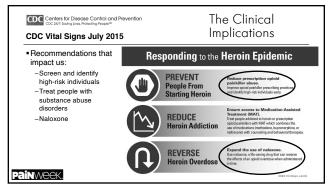


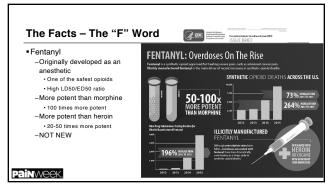


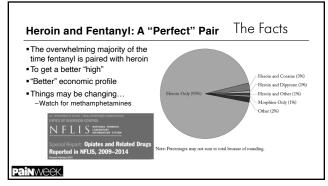




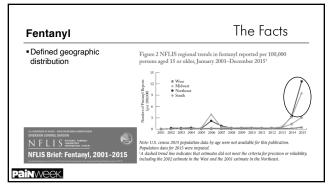








| Fentanyl                                                                                | The Facts                                                      |  |  |
|-----------------------------------------------------------------------------------------|----------------------------------------------------------------|--|--|
| Drug seizures involving fentanyl                                                        | Drug seizures containing fentanyl                              |  |  |
| increased dramatically between<br>2000-2016                                             | 30,000                                                         |  |  |
|                                                                                         | Fentaryl reports —<br>25.000 doubled in 2016                   |  |  |
|                                                                                         | 20,000                                                         |  |  |
|                                                                                         | 15,000                                                         |  |  |
|                                                                                         | 10,000                                                         |  |  |
| U.S. DEPARTMENT OF JUSTICE + DRUG ENFORCEMENT COMPUSETRATION DIVERSION CONTROL DIVISION | A 2005 spike was traced to a single lab in Mexico              |  |  |
| VFLIS MATIONAL FORENSIC                                                                 |                                                                |  |  |
|                                                                                         | 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15                   |  |  |
| NFLIS Brief: Fentanyl, 2001-2015                                                        | Source: D.E.A. National Forensic Laboratory Information System |  |  |



| DODA J. ANA CHANADON                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | The Facts                                                                                                                                                     |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|
| The Chinese Connection Fueling America's Fentanyl Crisis  Vas rethework beginning in china feeds fentanyl, a deadly synthetic opioid, to the U.S., desired and Canada  Vary Annew YMALEV VALLEY and BEINAR SPECIAL  Triblinal Chemistry  Triblin | Fentanyl can be manufactured anywhere —Synthetic  N-Phenethyl-4-piperidinone is NPP —Intermediate precursor to fentanyl  It is cheap It is not going anywhere |

#### Terminology

The Facts

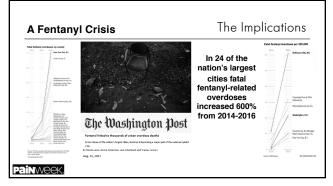
- A very small amount of fentanyl is potentially fatal
  This applies to licit or illicit fentanyl
- Illicitly manufactured fentanyl is likely no more dangerous than legally manufactured fentanyl
- Fentanyl label:



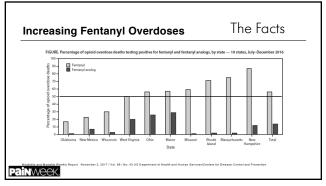
- FENTANYL CITRATE SHOULD BE ADMINISTERED ONLY BY PERSONS

  SPECIFICALLY TRAINED IN THE USE OF INTRAVENOUS ANESTHETICS AND MANAGEMENT OF THE RESPIRATORY EFFECTS OF POTENT OPIOIDS
- -AN OPIOID ANTAGONIST, RESUSCITATIVE AND INTUBATION EQUIPMENT AND OXYGEN SHOULD BE READILY AVAILABLE
  -Fentanyl may cause muscle rigidity, particularly involving the muscles of respiration
- -DIMINISHED SENSITIVITY TO CO2 STIMULATION MAY PERSIST LONGER THAN DEPRESSION OF RESPIRATORY RATE

37



38



#### **Different Types of Fentanyl and Presentations**

- Different formulations and varying potencies:
- Presentations
- -Powder -Counterfeit pills



40

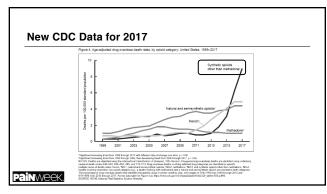


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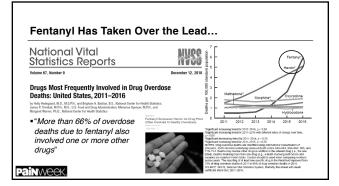
#### The Facts

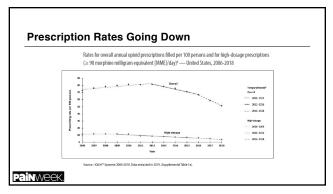
- Fentanyl in the wrong hands is deadly
- Potentially contributing significantly to overdose/fatal overdose risk
- Analogs not often tested for in routine toxicology testing
- Naloxone is a <u>bridge</u> to survival but not a final solution
- -Re-narcotization from fentanyl is common
- -Blunting of CO₂ response *will persist*-Diminished hypoxic drive may persist

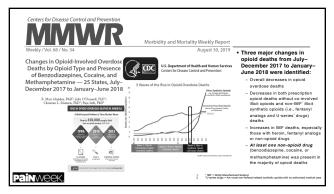




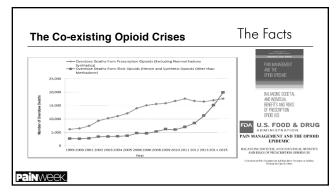
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SUMMARY



#### We didn't Start the Fire...Or did We?

- Significant controversy exists to the relationship between prescription opioids and the heroin/fentanyl epidemic
- -Tracking back to prescribers
  -The 1990s when opioid prescribing increased
  -Pain being designated as the "5" vital sign" in 2000
  -Pain Bill of Rights

  - Evolution of "pill mills"
- -Related to cost and availability

  Heroin and fentanyl are cheaper and stronger



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50



Who and What is Our Responsibility?

We Are Involved Like it or Not

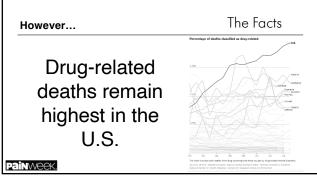
#### Does the United States Own The Problem??

- ■We are not alone
- ■This is a global issue
- In 2015, approximately ¼ billion people abused/misused drugs
  - ~ 29.5 million (0.6% of global adult population) engaged in problematic use/suffered from substance use disorder
- 70% of the global burden of disease caused by drug use disorders attributable to opioid use

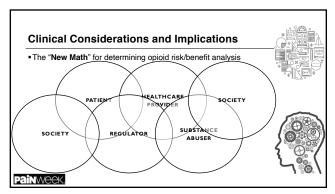


52

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53



#### **Final Thoughts**

- •We must consider the parallel "opioid" crises that exist today Our role in these problems
- Heroin and fentanyl are not going anywhere
- Remember the "New Math"
- Naloxone is likely something to keep top of mind Avoidance of "risky" situations is critical
- Strongly consider and document appropriate candidates for fentanyl-based therapies
- DO NOT CO-PRESCRIBE OPIOIDS and BENZODIAZEPINES
- Everyone is looking at us as an integral part of solving the "other" opioid crisis
   Everyone is looking to us to be a part of the solution to both crises

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55



#### **Final Thoughts**

But... Let's not make patients "pay" for the other crisis



56





"Cure sometimes, treat often, comfort always." - Hippocrates

| Questions? |  |
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